

Title (en)

Mechanical sensor for a quick release hand brake

Title (de)

Mechanischer Sensor für eine Handbremsschnelllösevorrichtung

Title (fr)

Capteur mécanique pour un dispositif de relâche rapide d'un frein à main

Publication

**EP 1264751 A3 20030305 (EN)**

Application

**EP 02291209 A 20020516**

Priority

US 87444901 A 20010605

Abstract (en)

[origin: US6474450B1] A mechanical sensor for a hand brake quick release mechanism having a housing, flexible clamp, and release shaft having a member with first and second elements. A housing member has open and closed ends. The open end is engageable with a housing outside wall at a point radially opposed to the flexible clamp. A first aperture formed through the closed end is in axial alignment with a second aperture through the housing wall and a third aperture through the flexible clamp. A first portion of the slidable member is disposed within the housing member. A second portion extends through the first aperture, and a portion of the first portion extends through the second and third apertures, engaging with the first element when the release shaft is rotated to achieve and maintain full brake release. A device is provided for urging the slidable member inwardly when the hand brake is applied.

IPC 1-7

**B61H 13/02**; **B60T 17/22**; **B61H 13/34**

IPC 8 full level

**B60T 7/02** (2006.01); **B60T 17/22** (2006.01); **B61H 13/04** (2006.01)

CPC (source: EP US)

**B60T 7/02** (2013.01 - EP US); **B60T 17/228** (2013.01 - EP US); **B61H 13/04** (2013.01 - EP US)

Citation (search report)

- [A] US 5738416 A 19980414 - KANJO WAJIH [US], et al
- [A] US 5549363 A 19960827 - KANJO WAJIH [US], et al
- [A] US 5701974 A 19971230 - KANJO WAJIH [US], et al

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CN105882679A; US2016167684A1; CN107499333A; US9956971B2; US10501099B2

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DOCDB simple family (publication)

**US 6474450 B1 20021105**; AU 3435002 A 20021212; AU 782042 B2 20050630; BR 0201428 A 20030211; CA 2381848 A1 20021205; CA 2381848 C 20050726; CN 1298576 C 20070207; CN 1390735 A 20030115; DE 60202402 D1 20050203; EP 1264751 A2 20021211; EP 1264751 A3 20030305; EP 1264751 B1 20041229; MX PA02005555 A 20040716; NZ 518507 A 20030131; ZA 200203321 B 20021104

DOCDB simple family (application)

**US 87444901 A 20010605**; AU 3435002 A 20020416; BR 0201428 A 20020425; CA 2381848 A 20020415; CN 02120366 A 20020523; DE 60202402 T 20020516; EP 02291209 A 20020516; MX PA02005555 A 20020605; NZ 51850702 A 20020419; ZA 200203321 A 20020425